# **Project-Bragboard**

Name: Lakshmi Prasanna

# milestone-2:

# **Week 4 Overview — Shout-outs Feed & Department Filters**

## Objective:

During Week 4, the goal was to develop the **Shout-outs Feed**, a key component of the Brag Board, where employees can view and celebrate achievements across departments. The focus was on displaying all shout-outs, adding smart filters, and enabling optional media uploads.

## **Key Features Implemented:**

## 1. Display All Shout-outs on the Feed:

- Designed a dynamic feed interface showcasing every shout-out in chronological order.
- o Each post displays the sender's name, department, message, and timestamp.
- o Optimized for responsiveness and clarity across all screen sizes.

# 2. Filter Functionality:

- o Introduced department-based filters for better organization and navigation.
- Users can filter shout-outs by:
  - Information Technology (IT)
  - Finance
  - Human Resources (HR)
- Additionally, filters for sender name and date range were included for precise searching.
- All filters are connected to FastAPI endpoints, ensuring smooth, real-time data fetching without page reloads.

## 3. Attachments / Image Uploads (Optional):

- o Integrated optional attachment support for image or document uploads.
- o Implemented image preview and file validation for format and size.
- o Managed uploads securely using FastAPI's UploadFile and backend storage handling.

#### **Tech Stack Used:**

• Frontend: React.js

• Backend: FastAPI (Python)

• Database: Postgresql

• Storage: Local/Cloud for media files

#### Outcome:

By the end of Week 4, the Brag Board featured a fully functional **interactive feed** with advanced filtering and media capabilities. This allowed employees from **IT, Finance, and HR** 

**departments** to connect, appreciate, and recognize one another's achievements in an engaging way.

#### **Common Errors Faced**

- Faced CORS errors between frontend and backend connections.
- Fixed by enabling CORS middleware in FastAPI.
- Encountered file upload issues with invalid formats.
- Resolved by adding file type and size validation.

# **Project Setup and Environment Configuration**

- A monorepo structure was created, separating the project into a dedicated backend directory for the FastAPI application and a frontend directory for the React.js application.
- The backend environment was configured with a Python virtual environment and all necessary dependencies, including SQLAlchemy for database interactions.
- The frontend environment was initialized using Vite, and Tailwind CSS was installed and configured for efficient styling.
- A scalable folder structure was implemented for both backend and frontend to ensure maintainability:
  - o Backend: models, schemas, crud, api
  - Frontend: pages, components, services

# Instructions for Running the Project

To run the BragBoard project, both the backend (FastAPI) and frontend (React) need to be set up and running. Follow these steps:

#### **Backend (FastAPI)**

- 1. Open a terminal and navigate to the backend directory: cd backend
- 2. Create and activate a Python virtual environment:
  - Windows: python -m venv venv → venv\Scripts\activate
  - o macOS/Linux: python -m venv venv → source venv/bin/activate
- 3. Install the required dependencies using pip install -r requirements.txt
- 4. Start the FastAPI server using: uvicorn app.main:app --reload
  - o The backend will run at <a href="http://127.0.0.1:8000/docs">http://127.0.0.1:8000/docs</a>

## Frontend (React with Vite)

- 1. Open a terminal and navigate to the frontend directory: cd frontend
- 2. Install the required packages using npm install
- 3. Start the development server with npm run dev
  - The frontend will run at <a href="http://localhost:5173">http://localhost:5173</a>

# **Project Repository**

The source code for BragBoard is hosted on GitHub and can be accessed at the following link:

**BragBoard Repository.**